1. **PURPOSE:**

To explain how to handle Nutsche Filter.

1. **SCOPE:**

This procedure is applicable during the operation of Nutche Filter at Discovery.

1. **RESPONSIBILITY:**

It is the responsibility of the person operating to follow this procedure as written in this SOP

1. **Definitions:** Nil
2. **PROCEDURE :**
   1. Check the Nutsche Filter condition from inside.
   2. If filter condition is good check the filter bag for the given product to the filtered.
   3. Fit the Nutsche filter and its bag properly
   4. Set the cloth in a curved manner such that no leakage takes place.
   5. As per process if hyflow is required for filtration make the hyflow slurry with Suitable media in a clean open carboy.
   6. Charge the slurry into the Nutsche filter and distribute evenly.
   7. Apply mild vacuum to set the bed properly.
   8. If there are any cracks on the bed press with the help of scoop.
   9. Remove the vacuum slowly.
   10. Unload the media from the Nutche filter.
   11. Close the bottom valve of the Nutsche and charge the mass for filtration.
   12. Apply vacuum slowly (Vacuum should be applied gradually and to be removed slowly, vacuum shocks are not advisable).
   13. Frequently stop the vacuum and unload the filtrate from Nutsche filter /receiver.
   14. It will help to prevent the material loss vacuum.
   15. After filtration, finally apply full vacuum to the Nutsche to suck the filtrate.
   16. Empty out the material from Nutsche and from Receiver.
3. **Formats / Annexure(S):** Nil.
4. **Change History:**

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| **Revision No.** | **Effective Date** | **Details of Revision** | **Ref. CCF No.** |
| 00 | 01.01.2011 | New SOP is introduced | ---- |
| 01 | 01.06.2014 | Revised as per current SOP No system & more clear and clarity | ---- |
| 02 | 01.01.2017 | Procedure elaborated and SOPs PD-016, PD-022 and PD-026 are merged in this SOP. | PD-CRF-024/16 |
| 03 | 01.01.2018 | 1. SOP format changed make to inline with SOP-QA-001-05. 2. In Revision No 02 Change History typographical error was rectified. | CCF/GEN/  17035 |